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**Pennsylvania Department of Agriculture**

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**GENERAL BULLETIN 601**

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**LIME  
REPORT**  
•

FOR THE YEARS  
1941-1944

•  
MILES HORST  
Secretary of Agriculture

BLISHED

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**Commonwealth of Pennsylvania  
Department of Agriculture  
Harrisburg**

Pennsylvania Department of Agriculture

Miles Horst

W. S. Hagar

Secretary

Deputy Secretary

G. J. Kuhlman, Chief Chemist

Bureau of Foods and Chemistry

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EXPLANATION OF TABLES OF ANALYSES

The letter "F" indicates the word "Found" or the figures obtained upon analysis, while the letter "G" denotes the guarantee of the manufacturer.

The samples which were found to be deficient in calcium and magnesium oxide to the extent of .50% or more are indicated by an asterisk (\*).

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LIME REPORT -1941 - 1944

INTRODUCTION

The Pennsylvania Lime Law, Act of June 1, 1915, requires annual registration of all liming materials sold for agricultural purposes. The following information is required to be shown on sacks or attached cards:

- (a) The name of the manufacturer or importer, and the address of his principal office.
- (b) The name of the place where manufactured.
- (c) The brand or trade name of the material.
- (d) The name of the form of the material.
- (e) The net weight, when the material is sold in packages.
- (f) The fineness of the material, if in a ground or powdered form, showing the percentage passing the twenty mesh sieve, the sixty mesh sieve, and the one hundred mesh sieve.
- (g) The minimum per cent contained of, in terms of, oxides of calcium and oxides of magnesium.
- (h) With respect to all burned forms of liming materials, including mixtures of burned and unburned liming materials, statement of the total maximum per cent contained of oxides of calcium and oxides of magnesium, which are combined as carbonates. The information given in the said statement shall be held to be the guaranty of the manufacturer or importer that the goods to which said statement refers are of the kind and quality or composition and fineness so set forth.

The act provides for the collection and analyses of official samples as obtained by Agents throughout the Commonwealth.

The act further provides for the analyses of special samples of liming materials submitted by manufacturers or producers located within the Commonwealth for a fee of \$5 per sample.

Applications for registration are required to be submitted and the registered labeling should correspond with labeling employed on sacks or attached cards.

The registration or license fees are as follows:

New Brands.....	\$ 5.00
Sales to 1000 tons inclusive.....	5.00
Over 1000 to 5000 tons inclusive.....	10.00
Over 5000 tons.....	20.00

Since the publication of the last Bulletin, namely for the years 1936 to 1940 inclusive, 97 special samples were submitted for analysis with the prescribed fees. The results of these analyses are not included in this report.

During the spring and fall shipping seasons, for the years 1941 to 1944 inclusive, 277 official samples were secured, out of which 268 samples were selected for analysis.

### BRANDS REGISTERED AND TONNAGE SALES

The following tabulation shows the lime consumption, which figures are based on each succeeding year's applications for registration:

	1940	1941	1942	1943
Limestone.....	441,169	523,208	551,641	747,616
Artificial Carbonate.....	1,170	1,257	----	----
Marl.....	510	576	527	504
Oyster Shell.....	2,364	2,030	1,637	1
Hydrated.....	61,261	64,000	65,135	79,009
Burned.....	104,520	89,892	93,897	71,573
Gypsum.....	291	694	93	1,124
Miscellaneous.....	<u>8,448</u>	<u>7,640</u>	<u>67,291</u>	<u>8,073</u>
Total Tonnage	619,733	689,297	780,221	907,900

Licenses were issued as follows:

	LICENSES	BRANDS	MFRS.
1941.....	213	361	206
1942.....	159	300	158
1943.....	163	293	146
1944.....	142	247	133

The results of chemical analyses of the 268 official samples showed that 45 or 16.7% were deficient in calcium oxide and 21 or 7.8% deficient in magnesium oxide to the extent of .50% or more below their respective guarantees.

The 268 samples analyzed represented 190 brands, registered by 90 manufacturers as follows:

CLASSES	BRANDS	SAMPLES
Pulverized Limestone.....	64	86
Hydrated Lime, low magnesia.....	75	122
Hydrated Lime, high magnesia.....	17	22
Burned Lime.....	32	36
Miscellaneous.....	<u>2</u>	<u>2</u>
Total.....	190	268

# PENNSYLVANIA LIME LAW

Act of June 1, 1915, No. 306, P. L. 678, as amended May 22, 1933—No. 157, P. L. 894

## AN ACT

To regulate the sale for agricultural purpose of crushed lime-stone, lime, gypsum, and related products; defining said products; and prescribing penalties for the violation of this act.

Section 1. Be it enacted, &c., That all liming materials for agricultural purposes, sold, offered, or exposed for sale within this Commonwealth, shall have attached to it or be accompanied in the manner provided in section three thereof, by a plainly printed statement, giving the following information:

(a) The name of the manufacturer or importer, and the address of his principal office.

Liming  
materials sold  
for agricultural  
purposes to  
have statement  
attached.

Information  
required.

(b) The name of the place where manufactured.

(c) The brand or trade name of the material.

(d) The name of the form of the material.

(e) The net weight, when the material is sold in packages.

(f) The fineness of the material, if in a ground or powdered form, showing the percentage passing the twenty mesh sieve, the sixty mesh sieve, and the one hundred mesh sieve.

(g) The minimum per cent contained of, in terms of, oxides of calcium and oxides of magnesium.

(h) With respect to all burned forms of liming materials, including mixtures of burned and unburned liming materials, statement of the total maximum per cent contained of oxides of calcium and oxides of magnesium, which are combined as carbonates. The information given in the said statement shall be held to be the guaranty of the manufacturer or importer that the goods to which said statement refers are of the kind and quality or composition and fineness so set forth.

Guaranty

Section 2. For the purpose of this act, the expression "liming materials for agricultural purposes" means any substances containing calcium or magnesium, or both for use as soil amendments or in soil treatment, or as ingredients or reagents in the preparation of any fungicide or insecticide.

Liming  
materials for  
agricultural  
purposes

Section 3. The statement required by section one of this act shall, in the case of goods sold in package, be plainly printed upon the package, or upon a tag or label fastened thereto, of such quality and in such manner that it shall not be detached in handling, and, in the case of goods sold in bulk the said statement shall be delivered to the purchaser either with the invoice therefor or with the goods.

Labeling of  
packages

Section 4. Every manufacturer or importer of liming materials for agricultural purposes shall, on or be-

Annual state-  
ment of brands

for the first day of January of each year, or before offering them for sale in this Commonwealth, file annually with the Secretary of Agriculture a statement of the names and number of brands of such materials, having distinct trade-names, that he shall offer for sale during the next ensuing calendar year, or remainder thereof, together with a copy of the statement declaring the composition of these several brands of said materials, as required by section one of this act.

Annual affidavit  
of weight of  
each brand

License fee

Section 5. In addition to the statement required by section four of this act, every manufacturer or importer of any of the materials covered by section one of this act shall on or before the first day of January of each year, or before offering them for sale within this Commonwealth, file annually with the Secretary of Agriculture an affidavit showing, as nearly as practicable, the weight of each brand of said materials sold by him or if the producer or vendor be a firm or corporation, by its managers, officers, and agents, within the Commonwealth, during the last preceding year; and for each brand so sold he shall pay to the Secretary of Agriculture a license fee, according to the weight sold, as follows: For an amount not exceeding one thousand tons, five dollars; for an amount exceeding one thousand tons, but not exceeding five thousand tons, ten dollars; and for an amount exceeding five thousand tons, twenty dollars; and when said fees shall have been paid, and the statements required by section four of this act have been filed with the Secretary of Agriculture, the party or parties who have made such payment, and otherwise complied with the provisions of this act, shall be entitled to sell within the Commonwealth the goods specified in said statement and covered by said fees during the year, or fraction of a year, immediately following said statement. If the manufacturer or importer shall not have made during the preceding year any sales within the Commonwealth, of the aforesaid material of any brand to be offered for sale during the year for which the fee is to be paid, he shall pay for each such brand a fee of five dollars. All monies so received shall be immediately paid by the Secretary of Agriculture into the State Treasury, for the use of the Commonwealth.

Violations

Section 6. Any person or persons, selling, offering, or exposing for sale, any of the materials covered by section one of this act, and of the same, unless accompanied by the statement required by section one of this act, or, when so accompanied, if the said statements shall be false in any particular, or without having complied with all the foregoing provisions of this act, shall be guilty of a misdemeanor; and on conviction shall be sentenced to pay a fine of not less than ten nor more than fifty dollars for the first offense, and not less than

Penalty

one hundred dollars for each subsequent offense. It shall be the duty of the Secretary of Agriculture to enforce the provisions of this act; and all penalties, costs, and fines recovered shall be paid to him or his duly authorized agent, and by him shall be immediately paid into the State Treasury, for the use of the Commonwealth.

Enforcement

The Secretary of Agriculture is hereby authorized to revoke any license where it shall be properly ascertained that the license has wilfully given false information in its statements relative to the kind, quality, composition or fineness of the liming materials sold, or offered for sale, under the provisions of this act.

Revocation of license

Section 7. The Secretary of Agriculture is hereby empowered to collect samples of the materials covered by section one of this act, either in person or by his duly qualified agent or representative, to have them analyzed, and shall publish the results for the information of the public; and for this purpose the said Secretary of Agriculture, such assistants, agents, experts, chemists, detectives, and counsel as he shall duly authorize, shall have full access, ingress, and egress to and from all places of business, quarries, kilns, factories, barns, buildings, carriages, cars, and vessels used in the manufacture, storage, transportation, or sale of any of the said materials. They shall also have power to open any package or vessel containing or supposed to contain any of the said materials, and to take therefrom samples for analysis, upon tendering the value of said samples. Any manufacturer or producer of any of the materials covered by section one of this act, located in the Commonwealth, shall be entitled to have a single sample of any distinct brand, for the sale of which he has paid the fee required by section five of this act, analyzed by the Department of Agriculture, under such regulations as the Secretary of Agriculture may prescribe with respect to the points of composition specified in said section one, upon sending sample properly sealed and carriage prepaid, together with a fee of five dollars for each such analysis; but not more than two brands shall be analyzed, under the privilege conferred by this proviso, for one manufacturer or producer in a single year. None of the provisions of this act shall apply to sales of limestone, or limestone products or marl, when such sales are made at the quarry or pit in bulk, and delivered to the wagons or trucks of the users, who are presumed to be acquainted with the qualities of the local products, if such deliveries do not exceed one hundred tons in any one year.

Collection of samples

Right of access, etc.

Taking of samples for analysis

Right of producer to have sample analyzed

Fee

Limited sales at pit or quarry excepted

Approved—The 22d day of May, A. D. 1933.

GIFFORD PINCHOT.

TABLE I--AVERAGE ANALYSES, PRICES AND DEFICIENCIES

Classes of Lime Products	Samples	Brands	Mfrs.	Average Calcium Oxide %	Average Magnesium Oxide %	Price Per Ton \$	Deficiencies	
							Calcium Oxide	Magnesium Oxide
Pulverized Limestone.....	87	64	44	47.55	3.80	5.76	13	4
Hydreted Lime (Low Magnesia).....	122	75	31	69.71	1.38	12.13	13	5
Hydreted Lime (High Magnesia).....	22	17	8	47.11	32.38	13.65	2	2
Burned Lime.....	36	32	30	73.84	5.10	4.64	17	10
Miscellaneous.....	2	2	2	43.31	2.41	1.62	..	..

TABLE II--PULVERIZED LIMESTONE

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
<u>FULVERIZED LIMESTONE</u>					
AMERICAN LIME & STONE COMPANY Bellefonte, Pa.					
Alfelfe Pulverized Limeetone (C-3207) F G	54.07 53.79	0.49 0.48	100.0 100.0	89.2 80.0	86.4 70.0
Alfelfe Pulverized Limeetone (C-3269) F G	54.07 53.79	0.51 0.48	100.0 100.0	88.4 80.0	82.8 70.0
Alfelfe Pulverized Limeetone (C-3289) F G	55.21 53.79	0.50 0.48	100.0 100.0	89.2 80.0	85.2 70.0
Alfelfe Pulverized Limeetone (C-3326) F G	53.23 53.79	0.64 0.48	100.0 100.0	88.4 80.0	85.6 70.0
J. E. BAKER & COMPANY York, Pa.					
Snow Fleke Pulverized Limestone (C-3201) F G	*48.62 52.00	5.95 2.00	100.0 100.0	100.0 100.0	100.0 99.0
BELLEFONTE STONE PRODUCTS COMPANY Milroy, Pa.					
Perfect Belence Pulverized Limeetone (C-3285) F G	52.58 51.85	1.31 1.43	100.0 100.0	98.8 92.0	93.2 80.0
BERKS PRODUCTS CORPORATION Reedling, Pa.					
Berke Pulverized Limeetone (C-3230) F G	32.72 32.00	7.81 7.00	100.0 ----	100.0 ----	99.2 ----
BINKLEY BROTHERS & OBER Dry Run, Pa.					
Ground Limestone for Agriculture (C- 54) F G	52.48 50.00	1.53 1.50	100.0 ----	66.4 ----	52.4 ----
THE CARBON LIMESTONE COMPANY Youngstown, Ohio					
Carbon Pulverized Limeetone (C-3280) F G	52.26 51.29	0.48 0.47	100.0 100.0	79.2 75.0	70.8 65.0
Carbon Pulverized Limeetone (C-3214) F G	52.48 51.29	0.48 0.47	100.0 100.0	76.4 75.0	69.2 65.0
Carbon Cround Agriculture Limeetone (C-3324) F G	51.30 51.29	0.32 0.47	100.0 100.0	76.4 75.0	68.4 65.0
Carbon Pulverized Agriculture Limeetone (C- 41) F G	51.59 51.29	0.55 0.47	100.0 100.0	96.4 75.0	95.0 65.0
Carbon Pulverized Agriculture Limeetone (C- 8) F G	51.78 51.29	0.65 0.47	100.0 100.0	85.2 75.0	80.8 65.0
BEN DESANTIS New Bethlehem, Pa.					
Ground Limestone (C-3197) F G	53.32 53.12	0.41 0.37	80.0 86.8	46.4 39.2	40.8 32.4
EVANS & ROBERTS Norrietown, Pa.					
Pulverized Agricultural Limeetone (C- 57) F G	*29.13 31.19	19.86 19.77	100.0 100.0	74.4 80.0	69.2 75.0
LEONARD FRY Mercerburg, Pa.					
Ground Limeetone (C- 47) F G	45.32 45.66	*5.34 6.42	100.0 100.0	80.0 80.0	70.0 60.0
CROVE CITY LIMESTONE COMPANY Sheron, Pa.					
Fonr Leef Clover Brand Limeetone (C-3188) F G	51.58 51.87	0.41 0.40	100.0 100.0	64.0 64.0	61.6 54.0
Fonr Leef Clover Brand Limeetone (C- 38) F G	51.99 51.67	0.52 0.40	100.0 100.0	73.2 64.0	61.2 54.0
HARTLEY & ULLERY Carmiehele, Pa.					
Hartley & Ullery Pulverized Limeetone (C-3316) F G	*34.35 45.00	7.64 0.75	90.4 90.0	45.6 45.0	42.4 30.0

\*Deficient

TABLE II--PULVERIZED LIMESTONE

MANUFACTURER AND BRAND NAME		CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
				#20	#60	#100
				%	%	%
RUSSELL HEWITT Wind Ridge, Pa.						
Hewitt's Pulverized Limestone	(G-3224) F G	*50.55 54.00	1.19 0.58	100.0 ---	78.4 ---	69.2 ---
LANDIS STONE MEAL COMPANY Rheems, Pa.						
Powdered Limestone	(C- 23) F G	42.12 41.48	0.98 0.96	100.0 100.0	93.2 99.0	89.2 100.0
JACOB LANDIS Leaman Place, Pa.						
Limestone	(C-3225) F G	*44.30 49.39	3.22 3.69	100.0 ---	92.4 ---	86.4 ---
LIMESTONE PRODUCTS CORPORATION OF AMERICA Newton, N. J.						
Lime Crest Celcite Pulverized Limestone	(C-3202) F G	42.94 42.00	7.49 2.00	99.6 100.0	96.0 95.0	94.0 90.0
Lime Crest Calcite Pulverized Limestone	(C-3180) F G	45.45 42.00	4.71 2.00	99.6 100.0	97.2 95.0	91.6 90.0
Lime Crest Calcite Pulverized Limestone	(C- 56) F G	43.84 42.00	4.52 2.00	99.0 100.0	95.0 95.0	87.0 90.0
H. R. MILLER Lancaster, Pa.						
Ground Limestone	(C-5246) F G	37.84 37.04	2.19 2.19	100.0 ---	99.2 ---	98.0 ---
EUGENE MECKLEY Berndon, Pa.						
Meckley's Pulverized Limestone	(C-3258) F G	53.17 50.00	0.38 0.50	100.0 100.0	47.6 65.0	43.2 52.0
Meckley's Pulverized Limestone	(C-3304) F G	50.50 50.00	0.63 0.50	100.0 100.0	86.4 65.0	65.6 52.0
H. E. MILLARD Annville, Pa.						
Air Floated Pulverized Limestone	(C- 60) F G	55.28 53.63	*0.62 17.69	100.0 100.0	100.0 100.0	100.0 99.0
Air Floated Pulverized Limestone	(C- 21) F G	54.31 53.50	0.68 0.50	100.0 100.0	97.4 97.0	95.2 95.0
Air Floated Pulverized Limestone (Calcium)	(C- 39) F G	53.89 53.50	0.97 0.50	100.0 100.0	98.0 97.0	95.2 95.0
Air Floated Pulverized Limestone	(C- 46) F G	54.08 53.50	0.47 0.50	100.0 100.0	100.0 97.0	98.2 95.0
Air Floated Pulverized Limestone	(C- 26) F G	55.98 53.50	0.43 0.50	100.0 100.0	100.0 97.0	98.3 95.0
Air Floated Pulverized Limestone	(C-3165) F G	54.07 53.50	0.70 0.50	100.0 100.0	99.2 97.0	98.8 95.0
Air Floated Pulverized Limestone (Calcium)	(C-3286) F G	54.98 53.50	0.53 0.50	100.0 100.0	100.0 97.0	99.2 95.0
Air Floated Pulverized Limestone (Calcium)	(C-3177) F G	53.87 53.50	0.58 0.50	100.0 100.0	100.0 97.0	100.0 95.0
Air Floated Pulverized Limestone (Calcium)	(C-3329) F G	53.46 53.50	1.29 0.50	100.0 100.0	98.8 97.0	98.0 95.0
NATIONAL GYPSUM COMPANY Buffalo, N. Y.						
Gold Bond Pulverized Limestone	(C- 81) F G	54.33 54.50	0.52 0.52	100.0 100.0	100.0 100.0	100.0 97.0
Gold Bond Pulverized Limestone	(C- 36) F G	54.58 54.80	0.58 0.52	100.0 100.0	100.0 100.0	99.2 97.0
Challenge Pulverized Limestone	(C-3274) F G	52.03 52.00	3.74 2.00	100.0 100.0	100.0 100.0	100.0 98.6

Deficient

TABLE 18—PULVERIZED LIMESTONE

MANUFACTURER AND TRADE NAME		CALCIUM OXIDE	MAGNESIUM OXIDE	FIRELESS		
				#20	#60	#100
				%	%	%
NATIONAL MORTAR & SUPPLY COMPANY Pittsburgh, Pa.						
Banner Pulverized Limestone	(C-3270) F	31.58	*21.31	100.0	100.0	99.2
	G	30.00	22.00	100.0	98.0	90.0
Banner Pulverized Limestone	(C-3221) F	31.01	22.03	100.0	100.0	97.6
	G	30.00	22.00	100.0	98.0	90.0
Banner Superfine Limestone	(C- 6) F	31.58	22.58	100.0	98.8	92.8
	G	30.00	22.00	100.0	100.0	98.2
NEW CASTLE LIME & STONE COMPANY New Castle, Pa.						
New Castle Brand Agricultural Limestone	(C-3216) F	*50.67	0.42	100.0	64.8	60.4
	G	51.52	0.75	100.0	75.0	65.0
New Castle Brand Agricultural Limestone	(C- 44) F	50.61	0.72	100.0	79.6	73.2
	G	49.50	0.50	100.0	75.0	65.0
New Castle Brand Agricultural Limestone	(C- 29) F	50.62	0.69	100.0	81.6	93.8
	G	49.50	0.50	100.0	75.0	65.0
New Castle Brand Agricultural Limestone	(C- 23) F	51.48	0.79	100.0	82.6	74.8
	G	51.52	0.75	100.0	75.0	65.0
New Castle Brand Agricultural Limestone	(C- 15) F	50.29	0.70	100.0	82.0	74.0
	G	49.50	0.45	100.0	75.0	65.0
New Castle Brand Agricultural Limestone	(C-3275) F	51.57	0.49	100.0	76.0	65.6
	G	51.52	0.75	100.0	75.0	65.0
THE OHIO HYDRATE & SUPPLY COMPANY Woodville, Ohio						
OESO Pulverized Raw Lime	(C-5223) F	31.58	21.75	100.0	100.0	98.4
	G	31.50	20.00	100.0	96.0	83.0
OESO Pulverized Raw Lime	(C-3220) F	31.35	22.04	100.0	100.0	99.2
	G	31.50	20.00	100.0	95.0	90.0
OESO Pulverized Limestone	(C-5267) F	31.58	21.71	100.0	99.6	97.2
	G	31.50	20.00	100.0	96.0	83.0
PEERLESS LIME PRODUCTS COMPANY, INC. Rices Landing, Pa.						
Peerless Ground Limestone	(C-3260) F	49.76	1.75	100.0	100.0	100.0
	G	47.15	1.07	90.5	---	---
Peerless Ground Limestone	(C-3518) F	49.25	1.96	100.0	60.0	50.0
	G	49.00	1.00	98.0	50.0	30.0
PINOLA LIME KILN Shippensburg, Pa.						
Pulverized Limestone	(C- 45) F	50.86	4.56	100.0	56.0	52.0
	G	54.00	1.80	100.0	65.0	54.0
Pulverized Limestone	(C-3236) F	55.62	0.87	100.0	46.4	38.8
	G	53.46	1.08	----	----	----
Ground Limestone	(C- 5) F	55.73	1.17	100.0	56.0	50.0
	G	52.61	1.29	----	----	----
QUARRYVILLE LIME & STONE COMPANY Quarryville, Pa.						
Limestone	(C-3248) F	34.42	2.53	94.8	69.2	63.2
	G	30.00	2.00	90.0	70.0	60.0
RICE BROTHERS Holbrook, Pa.						
Rice's Pulverized Limestone	(C-3315) F	45.50	1.06	99.6	57.2	49.6
	G	45.00	0.75	90.0	45.0	30.0
Rice's Pulverized Limestone	(C-3204) F	48.96	0.67	93.6	51.2	45.6
	G	45.00	0.90	90.0	50.0	35.0
Rice's Pulverized Limestone	(C-3264) F	46.80	0.95	98.8	52.0	43.2
	G	45.00	0.90	90.0	50.0	35.0
SELLERS & LILLY Stevens, Pa.						
Phillips Ground Limestone	(C-3265) F	45.21	*0.77	89.2	33.2	26.4
	G	45.08	1.27	94.0	45.0	30.0
Phillips Ground Limestone	(C-3215) F	49.19	1.28	100.0	71.6	55.2
	G	43.08	1.27	94.0	45.0	30.0
Phillips Ground Limestone	(C-3514) F	51.64	0.72	93.8	52.2	47.2
	G	45.08	0.75	90.0	45.0	30.0

\*Deficient

TABLE II - PULVERIZED LIMESTONE

MANUFACTURER AND BRAND NAME		CALCIUM OXIDE	MAGNESIUM OXIDE	PERCENTS		
				\$20	\$60	\$100
				%	%	%
H. W. SEAUILL & COMPANY Mechanicsburg, Pa.						
Limestone	(C- 1) F G	39.13 37.99	7.56 7.19	98.0 98.0	57.5 57.2	52.0 52.0
SMITH BROTHERS Winfield, Pa.						
Dry Valley Famous Pulverized Limestone	(C- 25) F G	50.76 50.25	0.78 0.75	97.5 100.0	68.0 65.0	56.4 50.0
SPRINGHILL PULVERIZED LIMESTONE COMPANY Uniontown, Pa.						
Springhill Pulverized Limestone	(C- 17) F G	*40.58 52.00	1.96 0.72	100.0 ----	99.6 ----	98.0 ----
SPROUL LIME & STONE COMPANY Claysburg, Pa.						
Ground Limestone	(C- 50) F G	*42.48 52.00	0.70 0.48	*56.2 80.0	*22.0 40.0	*19.8 25.0
THE STANDARD LIME & STONE COMPANY Baltimore, Md.						
Standard Pulverized Limestone	(C-3277) F G	53.85 53.20	1.80 0.50	100.0 100.0	100.0 99.9	100.0 99.75
Standard Pulverized Limestone	(C-3321) F G	53.92 53.20	1.55 0.50	100.0 100.0	100.0 99.9	100.0 99.75
STEACY & WILSON COMPANY Wrightsville, Pa.						
Pulverized Limestone	(C- 6) F G	53.43 52.00	1.76 2.00	100.0 100.0	100.0 100.0	99.0 99.0
THISTLEWAITE LIMESTONE COMPANY Jeffereon, Pa.						
Thistlewaite Ground Limestone	(C-3205) F G	*44.30 46.00	1.86 2.00	94.0 90.0	65.2 40.0	62.0 28.0
Thistlewaite Ground Limestone	(C-3313) F G	*37.54 45.00	5.11 1.00	90.0 90.0	42.8 45.0	38.0 30.0
Thistlewaite Ground Limestone	(C-3265) F G	*34.85 46.00	6.13 2.00	88.4 90.0	44.8 40.0	34.4 31.0
UNITED QUARRIES, INCORPORATED Winfield, Pa.						
Famous Dry Valley Pulverized Limestone	(C-3257) F G	*42.94 50.25	3.45 0.75	100.0 100.0	91.6 65.0	90.0 52.0
Famous Dry Valley Pulverized Limestone	(C-3193) F G	50.32 50.25	0.84 0.75	100.0 100.0	68.4 65.0	58.4 52.0
WADDING BROTHERS Box Bethlehem, Pa.						
Raw Pulverized Lime	(C-5198) F G	53.62 52.88	0.32 0.27	75.6 76.0	49.2 50.0	44.4 44.8
WARNER COMPANY Bellefonte, Pa.						
Alfalfa Pulverized Limestone	(C- 13) F G	54.89 55.79	0.54 0.48	100.0 100.0	86.8 80.0	77.2 70.0
Alfalfa Pulverized Limestone	(C- 27) F G	54.25 53.79	0.78 0.48	100.0 100.0	99.2 60.0	96.0 70.0
Alfalfa Pulverized Limestone	(C- 29) F G	54.89 55.79	0.54 0.48	100.0 100.0	85.2 80.0	79.6 70.0
Alfalfa Pulverized Limestone	(C- 41) F G	54.83 55.79	0.49 0.48	100.0 100.0	90.8 99.8	84.5 99.2
Alfalfa Pulverized Limestone	(C- 53) F G	54.47 53.79	0.71 0.48	100.0 100.0	96.4 80.0	91.2 70.0
WORTHINGTON LIME & COAL COMPANY Worthington, Pa.						
Pulverized Agricultural Limestone	(C-3502) F G	52.55 52.25	0.85 0.28	42.4 ----	20.0 ----	16.0 ----

\*Deficient

TABLE II--PULVERIZED LIMESTONE

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
YOCHE & ROBERTS Norristown, Pa.						
Pulverized Limeetone	(C- 35) F G	30.81 31.19	21.06 19.77	100.0 100.0	100.0 85.0	99.2 80.0
Pulverized Agricultural Limeetone	(C-3512) F G	31.28 31.19	19.84 19.77	100.0 100.0	80.0 85.0	78.2 80.0
ZITTLER BROTHERS Lampeter, Pa.						
Limeetone	(C-3249) F G	*36.13 36.19	3.24 2.37	62.0 ----	43.2 ----	35.2 ----
Average		47.55	3.80	----	----	----

<sup>\*</sup>Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
<b>HYDRATED LIME (Low Magnesia)</b>					
AMERICAN LIME & STONE COMPANY Bellefonte, Pa.					
Bald Eagle Hydreted Lime	(C-3320) F	71.20	0.72	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3319) F	71.43	0.70	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3303) F	70.32	0.73	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3192) F	72.23	0.72	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3206) F	72.13	0.74	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(O-3218) F	71.37	0.72	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3243) F	72.13	0.71	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3260) F	72.48	0.83	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3288) F	70.43	0.71	100.0	100.0
	G	69.30	0.70	100.0	99.0
Bald Eagle Hydreted Lime	(C-3276) F	72.25	0.81	100.0	100.0
	G	69.30	0.70	100.0	99.0
<b>BAKER STONE COMPANY Bloomsburg, Pa.</b>					
Baker Brend Hydreted Lime	(C- 11) F	63.60	1.57	100.0	93.2
	O	63.44	1.51	98.0	91.2
<b>BOWSER &amp; CAMPBELL Kittanning, Pa.</b>					
Hydretad Lime	(C- 26) F	62.30	2.34	100.0	100.0
	G	62.38	2.69	70.0	62.8
Hydretad Lime	(C- 17) F	62.41	2.65	72.0	61.8
	G	62.38	2.69	70.0	62.8
Hydreted Lime	(C-3298) F	*62.11	2.19	87.6	78.0
	G	63.38	2.69	70.0	62.8
<b>CENTRAL CHEMICAL LIME CORPORATION Harrisonburg, Va.</b>					
Orondo Spreying & Dusting Hydreted Lime	(C- 19) F	*71.10	0.72	100.0	100.0
	G	73.00	0.60	100.0	100.0
<b>CHEMICAL LIME COMPANY, INCORPORATED Bellefonte, Pa.</b>					
Diamond Rotary Hydreted Lime Klin High Celciun	(C- 14) F	73.58	0.83	100.0	100.0
	G	72.89	0.69	100.0	100.0
Three Star Brand Superfine Hydreted Lime	(C- 13) F	75.90	0.73	100.0	100.0
	G	72.93	0.69	100.0	100.0
Three Star Brand Superfine Hydreted Lime	(C-3330) F	72.11	0.80	100.0	100.0
	G	72.00	0.69	100.0	100.0
<b>EASTERN LIME CORPORATION Allentown, Pa.</b>					
Hydreted Lime	(C-3228) F	*63.66	2.39	93.2	88.8
	G	67.80	2.40	----	----
<b>M. J. GROVE LIME COMPANY, INC. Lime Kiln, Md.</b>					
Hydreted Lime	(C- 11) F	72.02	*0.63	100.0	100.0
	G	65.00	5.00	99.0	94.0
Famoue Frederick County Hydretad Lime	(C- 9) F	71.37	*0.84	100.0	100.0
	G	65.00	5.00	99.0	94.0
<b>WALTER HERSHBERGER Kittanning, Pa.</b>					
Herchberger Hydreted Lime	(C-3500) F	*60.74	2.62	87.2	78.4
	G	61.43	2.55	69.6	58.0
Herchberger Hydreted Lime	(C- 19) F	63.29	2.76	79.6	68.0
	G	61.43	2.35	69.6	58.0

<sup>3</sup>Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
J. K. HOHAUGH Kittenning, Pa.						
Hydrated Lime	(C-3299) F G	*63.47 64.58	1.63 1.98	95.2 100.0	88.0 96.4	87.2 95.2
Hydrated Lime	(C- 18) F G	64.96 64.58	1.96 1.93	90.0 100.0	86.4 96.4	75.2 95.2
Hydrated Lime	(C- 27) F G	64.72 64.58	1.96 1.98	86.0 100.0	78.4 96.4	77.2 95.2
A. H. HOFFMAN, INCORPORATED Landisville, Pa.						
Hoffman's Hydrated Lime	(C-3200) F G	*65.21 70.00	0.68 1.00	100.0 100.0	100.0 99.25	100.0 99.0
JOE HUMENICK Ford City, Pa.						
Joe's Brand Hydrated Lime	(C- 28) F G	*62.89 66.20	2.85 3.07	90.2 100.0	81.2 98.0	78.4 97.6
THE KELLEY ISLAND LIME & TRANSPORT COMPANY Cleveland, Ohio						
Tiger All Purpose Hydrated Lime	(C-3217) F G	72.02 70.00	0.58 0.32	100.0 100.0	100.0 99.9	100.0 99.8
ED KUNKLE McGrann, Pa.						
Kunkle's Brand of Hydrated Lime	(C-3301) F G	*49.60 77.50	1.43 1.47	*72.4 100.0	*60.0 97.6	*59.2 95.6
LIMESTONE PRODUCTS CORPORATION OF AMERICA Newton, N. J.						
Lime Crest Calcite Hydrated Lime	(C-3291) F G	*67.34 70.00	3.61 1.00	100.0 100.0	98.8 99.0	98.4 97.0
Lime Crest Calcite Hydrated Lime	(C- 35) F G	70.78 70.00	1.77 1.00	100.0 100.0	100.0 99.0	100.0 97.0
Lime Crest Calcite Hydrated Lime	(C- 37) F G	70.76 70.00	1.75 1.00	100.0 100.0	100.0 99.0	97.4 97.0
Lime Crest Calcite Hydrated Lime	(C-3203) F G	70.21 70.00	2.68 1.00	100.0 100.0	100.0 99.0	98.8 97.0
Lime Crest Hydrated Lime	(C-3178) F G	71.49 70.00	2.98 1.00	100.0 100.0	100.0 99.0	100.0 97.0
MERCER LIME & STONE COMPANY Mercer, Pa.						
Mercer Hydrated Lime	(C-3306) F G	*62.33 65.00	0.51 0.80	100.0 100.0	92.4 90.0	90.4 80.0
Mercer Hydrated Lime	(C- 43) F G	63.54 63.00	0.88 0.80	100.0 100.0	96.4 90.0	95.0 80.0
Mercer Hydrated Lime	(C- 30) F G	63.71 63.00	0.83 0.80	100.0 100.0	96.2 90.0	95.2 80.0
Mercer Hydrated Lime	(G- 4) F G	63.82 65.00	0.90 0.80	100.0 100.0	95.4 90.0	94.2 80.0
Mercer Hydrated Lime	(C- 40) F G	63.84 65.00	0.84 0.80	97.6 100.0	91.2 90.0	90.0 80.0
Mercer Hydrated Lime	(C-3295) F G	63.02 65.00	0.59 0.80	100.0 100.0	92.0 90.0	90.8 80.0
H. E. MILLARD Annville, Pa.						
Sweet Arrow Hydrated Lime	(C-3285) F G	*66.57 70.00	6.55 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(G-3255) F G	70.09 70.00	1.12 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(C-3191) F G	70.20 70.00	2.59 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(G-3176) F G	71.49 70.00	0.86 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(C-3328) F G	71.32 70.00	1.64 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(C-3305) F G	71.45 70.00	1.47 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(G-5309) F G	71.66 70.00	1.02 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(C- 31) F G	70.49 70.00	1.55 1.00	100.0 100.0	100.0 99.25	100.0 99.0
Sweet Arrow Hydrated Lime	(C- 13) F G	71.45 70.00	1.88 1.00	100.0 100.0	100.0 99.25	99.8 99.0

#Deficient

TABLE III---HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	μ	μ	μ	μ	
Sweet Arrow Hydrated Lime	(C- 2) F	71.27	1.61	100.0	100.0	99.9
	G	70.00	1.00	100.0	99.25	99.0
Sweet Arrow Hydrated Lime	(C- 59) F	71.42	1.77	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
Sweet Arrow Hydrated Lime	(C- 47) F	71.10	1.18	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
Sweet Arrow Hydrated Lime	(C- 22) F	70.68	1.23	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
Sweet Arrow Hydrated Lime	(C- 20) F	70.92	1.16	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
Modern Hydrated Lime	(C- 1) F	71.45	1.19	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
Modern Hydrated Lime	(C- 58) F	71.45	1.21	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.25	99.0
Modern Hydrated Lime	(C- 39) F	71.45	1.16	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.25	99.0
Modern Hydrated Lime	(C-3308) F	71.12	1.01	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.75	99.0
Modern Hydrated Lime	(C-3327) F	71.20	1.44	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.25	99.0
C. D. & R. R. COCAINA Kitanning, Pa.						
McCenna Hydrated Lime	(C- 20) F	65.86	0.67	67.0	92.8	88.0
	G	65.00	0.51	54.0	88.5	81.0
McCenna Hydrated Lime	(C-3196) F	66.73	0.51	56.4	91.2	80.0
	G	65.00	0.51	44.0	88.6	80.0
NATIONAL CEMENT COMPANY Buffalo, N. Y.						
Gold Bond Hydrated Lime	(C- 22) F	71.11	1.12	100.0	100.0	100.0
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Hydrated Lime	(C-3273) F	71.00	1.16	100.0	100.0	100.0
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Hydrated Lime	(C-3281) F	71.04	0.75	100.0	100.0	100.0
	G	70.00	0.75	100.0	100.0	100.0
Gold Bond Hydrated Lime	(C- 8) F	71.02	1.04	100.0	100.0	100.0
	G	70.00	1.00	100.0	100.0	100.0
Gold Bond Hydrated Lime	(C- 7) F	70.97	1.03	100.0	100.0	97.0
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Hydrated Lime	(C- 3) F	71.41	2.04	100.0	100.0	100.0
	G	71.00	2.00	100.0	100.0	100.0
Gold Bond Agricultural Hydrated Lime (C- 9) F	72.18	1.61	100.0	100.0	100.0	
	G	72.00	0.75	100.0	100.0	100.0
Gold Bond Agricultural Hydrated Lime (C- 33) F	71.08	1.03	100.0	100.0	100.0	
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Agricultural Hydrated Lime (C- 33) F	71.00	0.75	100.0	100.0	100.0	
	G	72.00	0.75	100.0	100.0	100.0
Gold Bond Agricultural Hydrated Lime (C-3221) F	72.57	0.77	100.0	100.0	100.0	
	G	72.00	0.75	100.0	100.0	100.0
Gold Bond Spraying & Dusting Hydrated Lime (C- 34) F	71.18	1.07	100.0	100.0	100.0	
	G	72.00	1.07	100.0	100.0	100.0
Gold Bond Spraying & Dusting Hydrated Lime (C- 55) F	72.16	1.08	100.0	100.0	100.0	
	G	72.00	0.75	100.0	100.0	100.0
Gold Bond Superfine Pro. Inc. Hydrated Lime (C- 9) F	72.18	1.06	100.0	100.0	100.0	
	G	72.00	1.00	100.0	100.0	100.0
Diamond Brand Hydrated Lime (C- 57) F	72.91	0.71	100.0	100.0	100.0	
	G	72.82	0.59	100.0	100.0	100.0
Diamond Brand Lime (C- 30) F	73.01	0.51	100.0	100.0	100.0	
	G	72.89	0.49	100.0	100.0	98.0
NEW ENGLAND STONE & CEMENT New Enterprise, Pa.						
Fort Bedford Hydrated Lime	(C- 25) F	67.74	3.72	100.0	100.0	99.2
	G	70.00	2.50	100.0	100.0	99.0
Fort Bedford Hydrated Lime	(C- 50) F	70.78	2.47	100.0	100.0	100.0
	G	70.00	2.50	100.0	100.0	99.0
Fort Bedford Hydrated Lime	(C-3210) F	71.00	1.52	100.0	100.0	100.0
	G	70.00	2.50	100.0	100.0	99.0
NORTH AMERICAN CEMENT CORPORATION Baltimore, Md.						
Berkley Agricultural Hydrated Lime	(C- 18) F	70.57	1.53	100.0	100.0	100.0
	G	70.00	1.50	100.0	99.0	98.9

\*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME		CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
				#20	#60	#100
				%	%	%
PINE CREEK LIME & STONE COMPANY Jersey Shore, Pa.						
Imperial Hydrated Lime	(C-3293) F G	63.02 62.50	5.26 3.00	100.0 100.0	98.4 97.0	97.6 95.0
POWHATAN LIME COMPANY Strasburg Junction, Va.						
Farmers Friend Hydrated Lime	(C- 16) F G	69.23 65.00	1.57 1.50	100.0 100.0	100.0 98.0	100.0 98.0
Farmers Friend Hydrated Lime	(C-3261) F G	71.11 65.00	1.74 1.50	100.0 100.0	99.6 99.0	99.6 98.0
Farmers Friend Hydrated Lime	(C-3190) F G	70.20 65.00	1.09 1.50	100.0 100.0	98.6 99.0	98.8 98.0
Farmers Friend Hydrated Lime	(C-3184) F G	71.80 65.00	1.28 1.50	100.0 100.0	100.0 99.0	99.2 98.0
Farmers Friend Hydrated Lime	(C-3200) F G	69.52 65.00	1.16 1.50	100.0 100.0	98.0 99.0	97.2 98.0
Farmers Friend Hydrated Lime	(C-3222) F G	71.11 65.00	1.12 1.50	100.0 100.0	98.8 99.0	98.4 98.0
Farmers Friend Hydrated Lime	(C-3242) F G	70.21 65.00	1.31 1.50	100.0 100.0	98.4 99.0	98.0 98.0
Farmers Friend Hydrated Lime	(C-3317) F G	69.39 65.00	1.82 1.50	100.0 100.0	100.0 99.0	100.0 99.6
Farmers Friend Hydrated Lime	(C-3268) F G	71.23 65.00	1.56 1.50	100.0 100.0	100.0 99.0	100.0 99.8
Powhatan Chemical Spray	(C-3182) F G	73.54 73.00	0.96 1.00	100.0 100.0	100.0 100.0	100.0 100.0
Powhatan Chemical Spray	(C-3183) F G	72.82 73.00	1.12 1.00	100.0 100.0	100.0 100.0	100.0 100.0
Powhatan Chemical Sprey	(C-3208) F G	72.82 73.00	0.84 1.00	100.0 100.0	100.0 100.0	100.0 100.0
Powhaten Chemical Spray	(C-3243) F G	72.93 73.00	0.84 1.00	100.0 100.0	100.0 100.0	100.0 100.0
ROBERT A. REICHARD Allentown, Pa.						
Reichard's Lehigh Hydrated Lime	(C- 55) F G	69.01 69.00	0.64 0.50	100.0 100.0	99.6 99.4	99.2 99.0
THE STANDARD LIME & STONE COMPANY Baltimore, Md.						
Standard Agricultural Hydrated Lime	(C-3212) F G	68.16 71.00	0.87 1.00	100.0 100.0	100.0 99.5	100.0 95.0
Standard Agricultural Hydrated Lime	(C-3278) F G	71.11 71.00	1.27 1.00	100.0 100.0	100.0 99.5	99.6 95.0
Standard Agricultural Hydrated Lime	(C- 36) F G	71.42 71.00	1.51 1.00	100.0 100.0	99.6 100.0	95.0 95.0
STEACY & WILTON COMPANY Wrightsville, Pa.						
Sterling Brand Hydrated Lime	(C- 3) F G	69.28 69.00	3.62 3.00	100.0 100.0	99.6 99.25	99.2 89.0
Sterling Brand Hydrated Lime	(C- 4) F G	69.30 69.00	3.05 3.00	100.0 100.0	99.85 99.25	99.4 99.0
Sterling Brand Hydrated Lime	(C- 32) F G	69.16 69.00	3.27 3.00	100.0 100.0	99.5 99.25	99.1 89.0
THOMASVILLE STONE & LIME COMPANY Thomasville, Pa.						
Thomasville Hydrated Lime	(C- 16) F G	72.08 72.00	1.58 1.00	100.0 100.0	100.0 100.0	100.0 100.0
W. E. TOY Kittanning, Pa.						
Hydrated Lime	(C-3189) F G	66.57 64.87	0.42 0.42	94.4 82.0	89.2 78.0	88.0 78.0
WARNER & COMPANY Bellfonte, Pa.						
High Calcium Hydrated Lime	(C- 51) F G	72.94 75.00	0.81 0.70	100.0 100.0	100.0 100.0	100.0 100.0
Bell Mine Hydrated Lime	(C- 7) F G	71.88 69.30	0.92 0.70	100.0 100.0	100.0 100.0	100.0 100.0
Three Star Brand Super Hydrated Lime	(C- 49) F G	73.85 72.95	0.77 0.69	100.0 100.0	100.0 100.0	100.0 100.0
Bald Eagle Hydrated Lime	(C- 21) F G	71.68 69.30	0.76 0.70	100.0 100.0	100.0 99.0	100.0 99.0

\*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME		CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
				#20	#60	#100
				%	%	%
Held Eagle Hydreted Lime	(C- 24) F	71.86	0.72	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	69.30	0.70	100.0	99.0	99.0
Held Eagle Hydreted Lime	(C- 42) F	71.68	0.73	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	69.30	0.70	100.0	99.0	99.0
Held Eagle Hydreted Lime	(C- 43) F	71.66	0.72	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	69.30	0.70	100.0	80.0	70.0
Held Eagle Hydreted Lime	(C- 48) F	71.46	0.79	100.0	100.0	100.0
Held Eagle Hydreted Lime	O	69.30	0.70	100.0	99.8	99.2
Held Eagle Hydreted Lime	(C- 52) F	71.54	0.80	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	69.30	0.70	100.0	99.8	99.2
Held Eagle Hydreted Lime	(C- 24) F	70.69	0.72	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	70.00	0.70	100.0	99.8	99.2
Held Eagle Hydreted Lime	(C- 36) F	71.06	0.89	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	70.00	0.70	100.0	99.0	99.0
Held Eagle Hydreted Lime	(C- 12) F	71.22	0.76	100.0	100.0	100.0
Held Eagle Hydreted Lime	G	70.00	0.70	100.0	99.8	99.2
WHITEROCK QUARRIES, INCORPORATED Hellfonte, Pa.						
White Rock Hydreted Lime	(C-3166) F	71.80	0.62	100.0	100.0	100.0
White Rock Hydreted Lime	G	70.00	1.00	100.0	100.0	99.0
White Rock Nittany H-O Hydreted Lime	(C-3294) F	70.75	0.91	100.0	100.0	100.0
White Rock Nittany H-O Hydreted Lime	G	70.00	0.55	100.0	99.0	99.0
White Rock Nittany H-O Hydreted Lime	(C-3256) F	70.89	0.64	100.0	99.6	99.2
White Rock Nittany H-O Hydreted Lime	G	70.00	0.55	100.0	99.0	99.0
White Rock Nittany H-O Hydreted Lime	(C-3187) F	70.89	0.56	100.0	98.8	98.4
White Rock Nittany H-O Hydreted Lime	G	70.00	0.55	100.0	99.0	99.0
White Rock Nittany H-O Hydreted Lime	(C-3181) F	72.63	0.73	100.0	100.0	100.0
White Rock Nittany H-O Hydreted Lime	G	70.00	0.55	100.0	99.0	99.0
White Rock Nittany H-O Hydreted Lime	(C-3179) F	73.54	0.68	100.0	100.0	100.0
White Rock Nittany H-O Hydreted Lime	G	70.00	0.66	100.0	99.0	99.0
Average		69.71	1.38	----	----	----
HYDRATED LIME (High Magnesia)						
G. & W. H. CORSON, INCORPORATED Plymouth Meeting, Pa.						
Corson's High Magneecium Hydrete	(C- 32) F	46.75	31.45	100.0	97.0	95.0
Corson's High Magneecium Hydrete	G	46.50	31.00	99.0	97.0	95.0
Coreon's High Magneecium Hydrete	(C-3292) F	46.64	32.28	100.0	98.8	98.0
Coreon's High Magneecium Hydrete	G	46.50	31.00	99.0	97.0	95.0
GIBSONBURG LIME PRODUCTS COMPANY Gibsonburg, Ohio						
Gibsonburg Fertlime Agricultural Hydreted Lime	(C- 5) F	*46.59	*32.47	100.0	100.0	100.0
Gibsonburg Fertlime Agricultural Hydreted Lime	G	47.62	33.62	100.0	95.0	85.0
Gibsonburg Fertlime Agricultural Hydreted Lime	(C-3307) F	47.21	33.00	100.0	100.0	100.0
Gibsonburg Fertlime Agricultural Hydreted Lime	G	47.62	33.62	100.0	100.0	90.0
THE KELLEY ISLAND LIME & TRANSPORT COMPANY Cleveland, Ohio						
Tiger Spray Lime (White Rock)	(C- 42) F	48.16	34.20	100.0	100.0	95.8
Tiger Spray Lime (White Rock)	G	47.12	34.14	100.0	99.9	95.5
Tiger Agricultural Hydrete (White Rock)	(C- 14) F	47.85	*32.69	100.0	100.0	100.0
Tiger Agricultural Hydrete (White Rock)	G	47.12	34.14	100.0	99.9	95.5
Kelley Island Pulverized Limeetone (White Rock)	(C- 40) F	30.15	21.52	100.0	96.2	88.2
Kelley Island Pulverized Limeetone (White Rock)	G	29.75	21.25	100.0	85.0	75.0
NATIONAL GYPSUM COMPANY Buffalo, N. Y.						
Gold Bond Agriculturel Hydrete	(C-3272) F	48.17	33.10	100.0	100.0	99.6
Gold Bond Agriculturel Hydrete	G	47.50	32.65	100.0	99.0	85.0
NATIONAL MORTAR & SUPPLY COMPANY Pittsburgh, Pa.						
Banner Agriculturel Hydrete	(C-3271) F	48.39	34.10	100.0	99.6	99.2
Banner Agriculturel Hydrete	G	48.00	33.62	100.0	99.3	98.9
Superior Agriculturel Hydrete	(C-3213) F	46.31	33.89	100.0	100.0	100.0
Superior Agriculturel Hydrete	O	48.00	33.00	99.5	87.5	82.0
Superior Agriculturel Hydrete	(C-3279) F	48.29	33.53	100.0	100.0	99.2
Superior Agriculturel Hydrete	G	48.00	33.00	99.5	87.5	82.0

\*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
Superior Agricultural Hydrate (C- 11) F G	48.32 48.00	33.73 33.00	100.0 99.5	100.0 87.5	99.6 82.0
Superior Agricultural Hydrate (C-3325) F G	48.23 48.00	33.54 33.00	100.0 99.5	100.0 87.5	100.0 82.0
THE OHIO HYDRATE & SUPPLY COMPANY Woodville, Ohio					
Ohio Agricultural Hydrated Lime (C-3244) F G	48.05 48.00	33.33 31.70	100.0 ---	100.0 ---	100.0 ---
Ohio Agricultural Hydrated Lime (C-3219) F G	48.65 48.00	33.81 31.70	100.0 ---	99.6 ---	99.2 ---
UNITED STATES GYPSUM COMPANY Chicago, Ill.					
U.S.G. Agricultural Hydrated Lime (C- 31) F G	*47.17 48.80	31.60 31.80	100.0 100.0	100.0 95.0	100.0 75.0
U.S.G. Agricultural Hydrated Lime (C- 34) F G	49.08 48.80	31.60 31.80	100.0 95.0	100.0 75.0	100.0 100.0
Kemidol Hydrate Lime (C- 10) F G	48.32 48.80	32.34 31.80	100.0 100.0	100.0 95.0	99.2 75.0
WARNER COMPANY Philadelphia, Pa.					
Warner Limoid (C- 33) F G	47.88 46.50	31.85 31.00	100.0 100.0	99.2 97.0	99.0 95.0
Warner Limoid (C- 56) F G	47.24 46.50	31.22 31.00	100.0 100.0	100.0 97.0	98.0 95.0
Warner Limoid (C-3311) F G	48.56 46.50	33.19 31.00	100.0 100.0	100.0 97.0	100.0 95.0
THE WOODVILLE LIME PRODUCTS COMPANY Toledo, Ohio					
Tanlime Hydrated (C-3323) F G	48.00 46.57	33.71 33.98	100.0 100.0	100.0 100.0	100.0 99.5
Average	47.11	32.38	---	---	---

\*Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME		CALCIUM OXIDE	MAG- NESIUM OXIDE	OXIDES AS CARBON- ATES	FINENESS			
					%	%	%	%
<u>BURNED LIME</u>								
RALPH AURAND Lewistown, Pa.								
Lump Lime	(C-3234) F G	69.30 69.30	1.06 1.06	7.17 ----	----	----	----	----
THE J. E. HAKER COMPANY York, Pa.								
Suequehanne Hydrated Burned Lime	(C- 44) F G	70.16 70.00	1.81 2.00	----	100.0 100.0	100.0 100.0	100.0 99.0	
BAKER STONE COMPANY Bloomsburg, Pa.								
Haker's Lump Lime	(C- 12) F G	85.97 85.00	1.76 1.81	1.62 ----	----	----	----	----
JOHN J. CANNON Willow Grove, Pa.								
Cannon's Ground Burnt Lime	(C-3310) F G	*47.09 47.00	*53.18 35.00	9.05 6.00	100.0 100.0	92.8 60.0	91.2 40.0	
HERMAN CLEVINGER Webster Mills, Pa.								
Agricultural Lump Lime	(C-3238) F G	84.06 85.00	1.20 1.00	2.59 ----	----	----	----	----
CLINTON S. DAUBERT Lewistown, Pa.								
Agricultural Lump Lime	(C-3235) F G	80.32 80.32	1.61 1.61	1.82 ----	----	----	----	----
IRVIN DIVELY Clearyburg, Pa.								
Agricultural Lump Lime	(C- 52) F G	*66.59 87.20	*0.77 0.96	9.48 ----	----	----	----	----
MCKINLEY DODSON Clearyburg, Pa.								
Agricultural Lump Lime	(C- 33) F G	*78.15 87.36	1.15 1.62	3.50 6.28	----	----	----	----
ALVIN S. DOMBACH Millersville, Pa.								
Lime	(C-3247) F G	*54.77 65.16	1.87 1.05	9.10 ----	----	----	----	----
JOHN W. DORTY Mercersburg, Pa.								
Agricultural Lump Lime	(C-3232) F G	78.04 78.04	7.74 7.74	2.09 ----	----	----	----	----
WALTER J. KISWERT Jersey Shore, Pa.								
Lump Lime	(C-5532) F G	77.35 77.34	4.65 4.47	----	----	----	----	----
Ground Burned Lime	(C-3335) F G	*67.68 72.21	4.75 3.82	----	75.6 ----	64.8 ----	62.4 ----	
WEBSTER ESSIG Sinking Springs, Pa.								
Lump Lime	(C-3227) F G	54.42 54.42	25.00 25.00	6.64 ----	----	----	----	----
FISHER BROTHERS LIME WORKS Lawieburg, Pa.								
Lump Lime	(C-3254) F G	65.62 65.62	1.09 1.09	7.41 7.41	----	----	----	----

\*Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME	(C- 62) F G	CALCIUM OXIDE	MAG- NESIUM OXIDE	OXIDES AS CARBON- ATES	FIRNESS			
					%	%	%	
KENNETH FERRY Martinsburg, Pa.								
Agricultural Lump Lime	(C- 62) F G	68.20 ---	2.10 ---	---	---	---	---	---
LESTER HAMMOND Dry Run, Pa.								
Agricultural Lump Lime	(C-3194) F G	*82.59 69.76	*0.75 2.74	2.50 1.55	---	---	---	---
MILY HARRY Dry Run, Pa.								
Agricultural Lump Lime	(C-3251) F G	75.11 71.28	*3.04 15.57	5.87 7.57	---	---	---	---
R. A. REFFNER McConnellstown, Pa.								
Agricultural Lump Lime	(C-3280) F G	79.97 79.75	1.46 0.98	7.39 ---	---	---	---	---
FRANK L. HEINBAUGH Mercerburg, Pa.								
Burned Lump Lime	(C-3241) F G	*84.52 88.36	*2.53 3.10	2.53 3.10	---	---	---	---
Agricultural Lump Lime	(C- 48) F G	*80.23 88.36	*0.83 3.10	5.44 0.82	---	---	---	---
D. Y. KARN Mercerburg, Pa.								
Agricultural Lump Lime	(C- 46) F G	81.38 78.02	0.47 0.97	5.66 2.87	---	---	---	---
ROBERT KEISER Denville, Pa.								
Lump Lime	(C-3253) F G	83.16 ---	1.47 ---	3.35 ---	---	---	---	---
DAVID KNISELY Gleystown, Pa.								
Agricultural Lump Lime	(C- 49) F G	70.98 60.00	6.26 6.70	6.50 ---	---	---	---	---
THOMAS W. LINGENFELTER Clayenburg, Pa.								
Agricultural Lump Lime	(C- 51) F G	*78.61 84.25	*0.85 1.03	6.69 ---	---	---	---	---
MARTZ BROTHERS Knobsville, Pa.								
Agricultural Lump Lime	(C-3290) F G	80.9% 81.00	1.79 1.00	6.37 ---	---	---	---	---
JOHN MARTZ Rustontown, Pa.								
Agricultural Lump Lime	(C-3240) F G	*63.85 78.00	1.55 1.00	8.57 ---	---	---	---	---
MAXWELL HILL LIME QUARRIES Elvergreen, Pa.								
Agricultural Lime	(C-3229) F G	*47.49 50.00	52.94 32.00	---	96.4 ---	87.6 ---	86.4 ---	
PENN LIME STONE & CEMENT COMPANY Rheems, Pa.								
Burned Lump Lime	(C- 22) F G	*66.27 60.00	16.31 4.00	9.71 ---	---	---	---	---
PINOLA LIME KILN Shippensburg, Pa.								
Burned Lime	(C-3287) F G	*77.82 80.00	*1.00 2.93	2.71 ---	95.0 ---	95.0 ---	93.0 ---	

<sup>a</sup>Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME	(C-3199) F G	CALCIUM OXIDE %	MAG- NESIUM OXIDE %	OXIDES AS CARBON- ATES %	FINENESS		
					#20	#60	#100
MARSHALL L. RITCHIEY Everett, Pa.							
Agricultural Lime Burned	(C-3199) F G	*75.89 76.79	2.48 0.96	14.50 ----	93.2 ----	86.8 ----	86.0 ----
EDGAR SEIGFRIED Host, Pa.							
Lump Lime	(C-3226) F G	*67.48 70.41	*5.71 12.56	5.66 ----	----	----	----
H. P. STILLWAGON Connellsville, Pa.							
Stillwagon Kilnburnt Lime	(C-3322) F G	*71.43 93.10	1.00 1.12	4.14 ----	100.0 ----	98.8 ----	98.4 ----
FOSTER TATE LIME KILN Lewistown, Pa.							
Agricultural Lump Lime	(C-3233) F G	74.52 74.52	2.23 2.23	22.99 ----	----	----	----
WALKER & SHAFFER Mercersburg, Pa.							
Lump Lime	(C-3231) F G	*73.61 79.02	*6.20 9.70	3.62 ----	----	----	----
WARNER COMPANY Bellefonte, Pa.							
Rotary Kiln Pulverized Lime	(C- 28) F G	92.88 92.00	0.99 0.90	2.86 ----	100.0 100.0	100.0 100.0	100.0 99.9
Rotary Kiln Pulverized Lime	(C- 54) F G	93.64 93.00	0.96 0.90	3.20 ----	100.0 100.0	100.0 100.0	100.0 99.9
Average		78.84	5.10	----	----	----	----
<u>MISCELLANEOUS</u>							
THE FRANCE SLAG COMPANY Donora, Pa.							
Agricultural Slag	(C-3282) F G	41.12 ----	4.25 ----	----	97.6 ----	84.0 ----	78.8 ----
PITTSBURGH LIMESTONE CORPORATION Worthington, Pa.							
Fine Limestone Screenings (Buffalo Creek Mine)	(C-3297) F G	45.50 45.50	0.57 0.50	----	74.6 70.0	37.2 33.0	33.6 25.0
Average		43.31	2.41	----	----	----	----

\*Deficient

